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I claim:

- 1. A method of embedding a watermark into a halftone image, the image comprising a cluster of halftone dots, said method comprising the steps of:
- providing a watermark to alter the cluster of halftone dots by toggling boundary pixels of the halftone dots; and

embedding the watermark in the image.

- 2. The method according to claim 1, wherein the step of embedding comprisesthe step of gradually changing the halftone dots.
 - 3. The method according to claim 1, further comprising the step of toggling boundary pixels on or off to grow or shrink the halftone dots.
 - 4. An apparatus to embed a watermark in a halftone image, said apparatus comprising:

an encoder to toggle halftone data values at an outer boundary of a cluster of halftone dots of the halftone image.

- 5. The apparatus according to claim 4, wherein said encoder effects a change in the image's luminance.
 - 6. A method of embedding a watermark into a halftone image comprising the steps of:
- selecting a block of halftone dots in the halftone image; and adding or subtracting halftone dots in the block to achieve a change in luminance.